

Experiment Number: 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

F1_Rev.1.RE

NTP Study Number: C20320

Lock Date: 03/24/2011

Cage Range: ALL

Date Range: ALL

Removal Date Range: ALL

Treatment Groups: Include ALL

Study Gender: Both

TDMSE Version: 3.0.1.0_004

PWG Approval Date: **NONE**

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Lab: BAT

WISTAR HAN RATS MALE	0 mg/kg	ANIMAL ID	DAY ON TEST	males (cont...)																				
				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			6	7	7	6	6	5	5	7	0	0	7	7	7	1	7	6	5	7	2	7	7	0
			4	2	2	2	3	1	8	2	0	2	2	2	9	6	7	3	2	4	2	2	2	2
			8	7	7	2	8	7	7	8	2	9	9	9	6	7	3	2	8	1	9	7	7	7
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	3
			3	4	6	7	8	9	0	1	2	3	4	5	6	8	9	1	2	3	4	6	7	8

ALIMENTARY SYSTEM

Mesentery

+

end

+

.. Total animals with tissue examined microscopically, Total animals with lesion and mean severity grade, + Tissue examined microscopically M Missing tissue

+ .. Tissue examined microscopically

M .. Missing tissue
A .. Autolysis present

1-4 .. Lesion qualified as:

X .. Lesion present
- Insufficient tissue

Autolysis precludes evaluation.

1) Minimal 3) Moderate
2) Mild 4) Marked

| .. Insufficient tissue

2) Mild 4) Marked

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Lab: BAT

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Lab: BAT

WISTAR HAN RATS MALE	0 mg/kg	ANIMAL ID	DAY ON TEST	males (cont...)																					
				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			6	7	7	6	6	5	5	7	0	0	7	7	7	1	7	6	5	7	2	7	7	7	
			4	2	2	2	3	1	8	2	0	2	2	2	9	6	7	3	2	4	2	2	2	2	
			8	7	7	2	8	7	7	8	2	9	9	9	6	7	3	2	8	1	9	7	7	7	
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	3	
			3	4	6	7	8	9	0	1	2	3	4	5	6	8	9	1	2	3	4	6	7	8	9

Epicardium, Fibrosis

ENDOCRINE SYSTEM

GENERAL BODY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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Lab: BAT

WISTAR HAN RATS MALE	0 mg/kg	ANIMAL ID	DAY ON TEST																males (cont...)	
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		6	7	7	6	6	5	5	7	0	0	7	7	7	1	7	6	5	7	0
		4	2	2	2	3	1	8	2	0	2	2	2	9	6	7	8	3	2	4
		8	7	7	2	8	7	7	8	2	9	9	9	7	7	7	8	1	2	9
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2
		3	4	6	7	8	9	0	1	2	3	4	5	6	8	9	1	2	3	4

GENITAL SYSTEM

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X., Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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		WISTAR HAN RATS MALE																				males (cont...)
		0 mg/kg																				ANIMAL ID
DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ANIMAL ID
WISTAR HAN RATS MALE		6	7	7	6	6	5	5	7	0	7	7	0	1	0	7	6	5	7	2	0	ANIMAL ID
0 mg/kg		4	2	2	2	3	1	8	2	0	2	2	9	2	9	6	7	7	2	4	1	
		8	7	7	2	8	7	7	8	2	9	2	9	6	7	7	3	8	1	2	9	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	
		3	4	6	7	8	9	0	1	2	3	4	5	6	8	9	1	2	3	4	6	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 <th data-kind="ghost"></th>	
		0	0	0	0</																	

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Lab: BAT

Urethra
Inflammation, Chronic

Urinary Bladder

Urinary Bladder

males
(cont...)

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

I .. Insufficient tissue

A.. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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WISTAR HAN RATS MALE	0 mg/kg	ANIMAL ID	DAY ON TEST																				* TOTALS
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			6	7	7	5	7	4	7	2	7	7	7	5	7	7	7	7	7	7	7	7	0
			9	2	2	0	2	6	2	4	2	2	2	4	2	2	2	2	2	2	2	2	2
			5	7	7	2	7	5	8	4	7	7	7	2	8	7	7	8	8	8	8	8	8
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			3	3	3	3	3	3	3	4	4	4	4	4	4	4	5	5	5	5	5	5	5
			2	3	4	5	6	7	9	0	1	2	3	4	5	7	8	9	0	1	2	3	4

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																							1	3.0
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Ulcer																							2	2.0
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Parasite Metazoan																							1	1.0
Ulcer																							1	2.0
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Angiectasis																							2	1.5
Basophilic Focus	X	X				X	X		X		X		X	X	X	X	X	X	X	X	X	X	X	19
Clear Cell Focus	X	X	X			X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	34
Fatty Change	1	2				2			1	1				1		2	1	2	2	2	1	1	28	1.3
Hepatodiaphragmatic Nodule																								1
Mixed Cell Focus	X					X			X															9
Necrosis																								1
Bile Duct, Hyperplasia																								1.0
Mesentery																								3

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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 Route: GAVAGE
 Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/23/2013
 Time Report Requested: 15:06:23
 First Dose M/F: 07/25/07 / 07/26/07
 Lab: BAT

WISTAR HAN RATS MALE	DAY ON TEST																					* TOTALS				
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
0 mg/kg	ANIMAL ID	6	7	5	7	4	7	2	7	7	7	5	7	7	7	7	7	7	7	7	4	7	* TOTALS			
		9	2	2	0	2	6	2	4	2	2	2	4	2	2	2	2	2	2	2	8	5	7			
		5	7	7	2	7	5	8	4	7	7	2	9	2	8	7	7	2	2	2	8	5	6	8	8	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	
		2	3	4	5	6	7	9	0	1	2	3	4	5	7	8	9	0	1	2	3	4	5	6	8	9
		Epicardium, Fibrosis																				2	1	2.0		
ENDOCRINE SYSTEM																										
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Degeneration, Cystic																								1	4.0	
Hyperplasia		1																						12	1.6	
Vacuolization Cytoplasmic		1	1				1				1	1	1				1	1	1	1				1	17	1.2
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	49		
Hyperplasia																								3	1.0	
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Hyperplasia																								1	4.0	
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	M	+	M	+	+	45		
Hyperplasia																	1							1	1.0	
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Cyst			1																					1	1.0	
Pars Distalis, Hyperplasia																								2	8	1.8
Pars Intermedia, Hyperplasia																								1	2	1.5
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Cyst																								1	2.0	
C-cell, Hyperplasia																								16	1.3	
Follicle, Hyperplasia																								3	1.3	

GENERAL BODY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

GENITAL SYSTEM

HEMATOPOIETIC SYSTEM

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Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/23/2013

Test Type: CHRONIC

Tetrabromobisphenol A

Time Report Requested: 15:06:23

Route: GAVAGE

CAS Number: 79-94-7

First Dose M/F: 07/25/07 / 07/26/07

Species/Strain: RATS/Wistar Han

Lab: BAT

WISTAR HAN RATS MALE	DAY ON TEST																					* TOTALS	
		0 6 9 5	0 7 2 7	0 5 2 2	0 4 6 5	0 7 2 8	0 2 4 4	0 7 2 7	0 7 2 9	0 5 2 2	0 7 2 7	0 7 2 8	0 7 2 8	0 7 2 8	0 7 2 8	0 4 9 6	0 4 2 8	0 7 2 8	0 7 2 8	0 7 2 8			
0 mg/kg	ANIMAL ID	0 0 0 0 3 2	0 0 0 0 3 3	0 0 0 0 3 4	0 0 0 0 3 5	0 0 0 0 7 7	0 0 0 0 0 0	0 0 0 0 4 0	0 0 0 0 4 1	0 0 0 0 4 2	0 0 0 0 3 3	0 0 0 0 4 4	0 0 0 0 4 4	0 0 0 0 4 5	0 0 0 0 7 7	0 0 0 0 8 8	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	* TOTALS	
		Hematopoietic Cell Proliferation	3													1					1	8 1.8	
Necrosis																						1 4.0	
Lymphoid Follicle, Atrophy																						6 2.2	
Thymus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49		
Atrophy		2	4	4																		39 2.8	
Hyperplasia																						1 2.0	
Inflammation, Chronic																						1 2.0	
INTEGUMENTARY SYSTEM																							
Mammary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47		
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation																						1 2.0	
Ulcer																						10 3.1	
MUSCULOSKELETAL SYSTEM																							
Bone		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Skeletal Muscle																						1	
NERVOUS SYSTEM																							
Brain		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Compression																						9 3.6	
RESPIRATORY SYSTEM																							
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		

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 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Wistar Han

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 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/23/2013
 Time Report Requested: 15:06:23
 First Dose M/F: 07/25/07 / 07/26/07
 Lab: BAT

WISTAR HAN RATS MALE	0 mg/kg	DAY ON TEST																					* TOTALS	
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID		6	7	5	7	4	7	2	7	7	7	5	7	7	7	7	7	7	7	7	4	7		
		9	2	2	0	2	6	2	4	2	2	2	4	2	2	2	2	2	2	2	2	8	2	
		5	7	7	2	7	5	8	4	7	7	7	2	8	7	7	7	7	7	7	4	9	2	2
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5
		2	3	4	5	6	7	9	0	1	2	3	4	5	7	8	9	0	1	2	3	4	5	6
Inflammation, Granulomatous																								1
Inflammation, Chronic																								8 1.0
Alveolus, Inflammation																								1 2.0
Bronchiole, Hyperplasia																								3 1.0
Nose			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																								8 1.4
Ulcer																								1 2.0
Goblet Cell, Hyperplasia																								1 2.0
Trachea			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																								2 1.0
Peritrichlear Tissue, Inflammation																								1 2.0
SPECIAL SENSES SYSTEM																								
Eye			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																								1 3.0
Retina, Atrophy																								1 2.0
Harderian Gland			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Inflammation																								1 1.0
URINARY SYSTEM																								
Kidney			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst																								1
Nephropathy			1	1		1	1	1	2	1	1	1	1	1	2	2	1	2	1	1	2	1	1	39 1.4
Pelvis, Inflammation, Suppurative																								4 1.8
Renal Tubule, Accumulation, Hyaline Droplet																								1 3.0

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Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/23/2013

Test Type: CHRONIC

Tetrabromobisphenol A

Time Report Requested: 15:06:23

Route: Gavage

CAS Number: 79-94-7

First Dose M/F: 07/25/07 / 07/26/07

Species/Strain: RATS/Wistar Han

Lab: BAT

WISTAR HAN RATS MALE	0 mg/kg	DAY ON TEST	ANIMAL ID																				* TOTALS
			0679257	0722202	05027	07520	04227	06247	05284	07274	07227	07277	05429	07282	07277	07277	07292	07282	07282	07282	07282	0496	0496
			00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000

*** TOTALS**

Urethra
Inflammation, Chronic

Urinary Bladder

+
(3)

1

1 3.0

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+ .. Tissue examined microscopically

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Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/23/2013

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

Tetrabromobisphenol A

CAS Number: 79-94-7

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Species/Strain: RATS/Wistar Han

Lab: BAT

WISTAR HAN RATS MALE	250 mg/kg	DAY ON TEST	Males (cont...)																							
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	07	06	03	06	07	07	07	06	07	05	07	06	07	07	06	07	07	06	07	07	06	07	07	05	07	06
		22	29	55	22	22	22	28	20	49	29	29	27	28	27	27	27	27	27	27	27	27	27	00	28	45
		28	22	77	78	77	77	07	09	99	99	97	87	47	27	28	47	27	27	27	27	27	27	00	28	45
		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
		66	66	66	66	66	66	66	66	67	67	67	67	67	67	67	67	67	67	67	67	67	68	68	68	68
		11	12	13	14	15	16	17	18	19	10	11	12	13	14	15	16	17	18	19	10	11	12	13	14	15

ALIMENTARY SYSTEM

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Experiment Number: 20320 - 03
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 Route: GAVAGE
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 First Dose M/F: 07/25/07 / 07/26/07
 Lab: BAT

WISTAR HAN RATS MALE	DAY ON TEST	males (cont...)																								
		07	06	03	06	07	07	06	07	05	07	06	07	07	06	07	07	06	07	07	06	07	07	05	07	06
250 mg/kg	ANIMAL ID	22	29	55	22	22	28	70	77	24	22	28	22	27	24	27	22	27	23	28	22	27	22	20	28	25
		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
		66	66	66	66	66	66	66	66	67	67	67	67	67	67	67	67	67	67	67	67	67	68	68	68	68
		11	22	33	44	55	66	77	88	90	11	22	33	44	55	66	77	88	90	11	22	33	44	55	66	77
Fat, Necrosis		2	3																2							
Pancreas Atrophy		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach Inflammation, Chronic Ulcer		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Glandular Inflammation, Chronic Mineralization		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epithelium, Glands, Hyperplasia																										
CARDIOVASCULAR SYSTEM																										
Blood Vessel		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy		1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1
Endocardium, Hyperplasia																										
ENDOCRINE SYSTEM																										
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																										
Hyperplasia																										
Necrosis																										
Vacuolization Cytoplasmic		3		1		1		1		1									1	1	2	1	1			

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 Lab: BAT

WISTAR HAN RATS MALE	DAY ON TEST																										males (cont...)		
		07	06	03	06	07	07	06	07	05	07	06	07	07	06	07	07	06	07	07	06	07	07	05	07	06			
250 mg/kg	ANIMAL ID	22	29	55	22	22	28	27	20	27	29	29	27	28	27	24	27	22	27	22	27	23	28	27	22	20	28	25	
		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00		
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																													
Necrosis																													
Islets, Pancreatic		3																											
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																													
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																													
Pars Distalis, Hyperplasia								M								M													
Pars Intermedia, Hyperplasia																													
Thyroid Gland		1																											
C-cell, Hyperplasia																													

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis
 Atrophy
 Granuloma Sperm

Preputial Gland
 Inflammation

Prostate

+

+

+

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Species/Strain: RATS/Wistar Han

Lab: BAT

		DAY ON TEST																				males (cont...)	
WISTAR HAN RATS MALE		ANIMAL ID																					
250 mg/kg	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		7	6	3	6	5	2	2	2	8	2	7	4	2	8	2	7	2	7	2	7		
		2	2	9	5	2	2	2	7	0	7	9	9	9	7	2	7	4	7	3	8		
		8	2	7	7	8	7	7	7	0	7	9	9	9	7	2	7	4	7	3	8		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8		
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0		

Atrophy

Inflammation

1 2 1 2 1 1 2 2

+ +

Seminal Vesicle

Atrophy

Inflammation

Testes

Edema

Germinal Epithelium, Atrophy

1 1

+ +

1 3 2 1 3 3 1 2 1 2 1 1 1 1 1 1 1 2

3

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Lymph Node, Mandibular

Atrophy

Ectasia

+ +

Lymph Node, Mesenteric

Atrophy

Hyperplasia, Lymphoid

Necrosis

+ +

2

Spleen

Angiectasis

Congestion

Hematopoietic Cell Proliferation

Capsule, Fibrosis

Lymphoid Follicle, Atrophy

+ +

2

2

1 1 1 1 1 1 1

1 1 1

2

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 Route: GAVAGE
 Species/Strain: RATS/Wistar Han

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 Lab: BAT

		DAY ON TEST																				males (cont...)
WISTAR HAN RATS MALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
250 mg/kg	ANIMAL ID	7	6	3	6	7	0	7	6	0	7	5	0	7	6	0	7	6	0	7	5	
		2	2	9	5	2	2	2	8	2	2	4	2	8	2	2	2	7	2	2	4	
		8	2	7	7	8	7	7	0	7	9	9	9	7	8	7	7	3	8	7	5	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Thymus Atrophy		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
		3	3	2	4	4	4	3	4	2	4	3	4	2	2	4	1	4	3	1	1	

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skin Ulcer	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Epidermis, Hyperplasia																					

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

NERVOUS SYSTEM

Brain Compression	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	3	3	3				3	4	3				4									4
Peripheral Nerve Axon, Degeneration																					1	
Spinal Cord Axon, Degeneration																					3	

RESPIRATORY SYSTEM

Lung Hemorrhage	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Granulomatous																					2

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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Experiment Number: 20320 - 03

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Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/Wistar Han

Date Report Requested: 01/23/2013

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First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ALIMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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Experiment Number: 20320 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/23/2013
 Time Report Requested: 15:06:23
 First Dose M/F: 07/25/07 / 07/26/07
 Lab: BAT

WISTAR HAN RATS MALE	250 mg/kg	DAY ON TEST																					* TOTALS
			000	007	055	060	072	072	062	070	049	072	072	061	072	072	072	072	072	072	072	072	
ANIMAL ID			000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	
Fat, Necrosis																							3 2.3
Pancreas Atrophy			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1 1.0
Salivary Glands			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach Inflammation, Chronic Ulcer			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 5 2.2 1 3.0
Stomach, Glandular Inflammation, Chronic Mineralization Epithelium, Glands, Hyperplasia			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 2 1.0 3 2.0 1 2.0
CARDIOVASCULAR SYSTEM																							
Blood Vessel			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart Cardiomyopathy Endocardium, Hyperplasia			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 23 1.2 1 3.0
ENDOCRINE SYSTEM																							
Adrenal Cortex Hemorrhage Hyperplasia Necrosis Vacuolization Cytoplasmic			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1 2.0 5 1.6 2 2.0 17 1.1

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Experiment Number: 20320 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/23/2013
 Time Report Requested: 15:06:23
 First Dose M/F: 07/25/07 / 07/26/07
 Lab: BAT

WISTAR HAN RATS MALE	250 mg/kg	DAY ON TEST																					* TOTALS
			000	007	055	060	072	072	062	070	049	072	072	072	061	072	072	072	072	072	072	072	
ANIMAL ID		000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia																							1 1.0
Necrosis																							1 3.0
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Hyperplasia																							1 2.0
Pituitary Gland		+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	49	
Cyst										1													3 1.0
Pars Distalis, Hyperplasia											1												8 1.5
Pars Intermedia, Hyperplasia												2											2 2.5
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
C-cell, Hyperplasia																							27 1.4

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy																							1 4.0
Granuloma Sperm																							1 1.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																							6 1.0
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

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Experiment Number: 20320 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/23/2013
 Time Report Requested: 15:06:23
 First Dose M/F: 07/25/07 / 07/26/07
 Lab: BAT

WISTAR HAN RATS MALE	250 mg/kg	DAY ON TEST																									* TOTALS	
			000	007	055	060	072	072	062	070	049	072	072	072	061	072	072	072	072	072	072	072	072	072	072	072		
ANIMAL ID	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	
Atrophy																												1 3.0
Inflammation			4	2	2	3	2	2																			19 1.8	
Seminal Vesicle			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy																												1 3.0
Inflammation			3	2	3																							5 2.0
Testes			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Edema																												32 1.4
Germinal Epithelium, Atrophy			1		1	2		1	1																			4 2.8
HEMATOPOIETIC SYSTEM																												
Bone Marrow			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymph Node, Mandibular			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy																												1 2.0
Ectasia			2																									1 3.0
Lymph Node, Mesenteric			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy																												1 2.0
Hyperplasia, Lymphoid																												1 2.0
Necrosis			1																									1 1.0
Spleen			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Angiectasis																												1 2.0
Congestion																												1 2.0
Hematopoietic Cell Proliferation			2																									15 1.5
Capsule, Fibrosis																												1 1.0
Lymphoid Follicle, Atrophy			3		3	2																					5 2.8	
* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade																												
+ .. Tissue examined microscopically																												
X .. Lesion present																												
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1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20320 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/23/2013
 Time Report Requested: 15:06:23
 First Dose M/F: 07/25/07 / 07/26/07
 Lab: BAT

WISTAR HAN RATS MALE	250 mg/kg	DAY ON TEST																									* TOTALS	
			000	007	055	060	072	072	062	070	049	072	072	072	061	072	072	072	072	072	072	072	072	072	072	072		
ANIMAL ID			014	046	055	023	078	053	075	097	079	077	092	089	078	078	078	078	078	078	078	078	078	078	078	078	078	
Thymus Atrophy			+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
			4	3	3	4		2	3	4	4	1	2	1	2	4	4	3	4	2	4	4	2	4	4	2	46	3.0
INTEGUMENTARY SYSTEM																												
Mammary Gland			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Skin Ulcer			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Epidermis, Hyperplasia																												7 3.1
																												1 1.0
MUSCULOSKELETAL SYSTEM																												
Bone			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
NERVOUS SYSTEM																												
Brain Compression			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
			3	4																								12 3.3
Peripheral Nerve Axon, Degeneration																												2
																												1 1.0
Spinal Cord Axon, Degeneration																												2
																												1 3.0
RESPIRATORY SYSTEM																												
Lung Hemorrhage			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
			2																									1 2.0
Inflammation, Granulomatous																												2 2.0

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+ .. Tissue examined microscopically

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

WISTAR HAN RATS MALE	DAY ON TEST																					* TOTALS	
		0 0 3 5	0 7 0 1	0 5 9 4	0 6 0 5	0 7 2 3	0 7 2 7	0 6 2 5	0 7 0 9	0 7 2 7	0 7 2 9	0 7 2 9	0 7 2 8	0 7 2 9	0 7 2 9								
250 mg/kg	ANIMAL ID	0 0 0 0 8 6	0 0 0 0 8 7	0 0 0 0 8 8	0 0 0 0 9 9	0 0 0 0 0 1	* TOTALS																
Inflammation, Chronic																						1	6 1.0
Alveolar Epithelium, Necrosis																						1	1.0
Arteriole, Thrombosis																						1	1.0
Bronchiole, Hyperplasia																						2	1.0
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation		1	2																			1	5 1.6
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic																						1	1.0
SPECIAL SENSES SYSTEM																							
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Acute		1																				1	1.0
Retina, Atrophy																						1	2.0
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia																						1	1.0
URINARY SYSTEM																							
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst																						X	1
Hydronephrosis																						2	2.0
Inflammation, Suppurative, Multifocal																						1	3.0
Nephropathy																						30	1.2
Pelvis, Inflammation, Suppurative																						2	2.0
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Transitional Epithelium, Hyperplasia		3																				1	3.0

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+ .. Tissue examined microscopically

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2) Mild 4) Marked

Experiment Number: 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

WISTAR HAN RATS MALE	500 mg/kg	DAY ON TEST																					males (cont...)	
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	07	07	05	06	06	07	07	07	07	07	05	07	07	07	03	07	07	07	07	07	07	07	07	07
	22	22	27	27	22	22	22	22	22	28	26	27	28	27	29	23	28	28	28	27	27	27	27	28
	88	88	44	33	66	77	22	77	77	88	77	77	88	77	88	33	28	28	28	27	27	27	27	28
	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	
	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
	11	22	33	44	55	66	77	88	99	00	11	22	33	44	55	66	77	88	99	00	11	22	33	

ALIMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

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Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

WISTAR HAN RATS MALE	DAY ON TEST	males (cont...)																									
		07	05	06	06	07	07	07	07	05	07	07	03	07	07	07	07	07	07	07	07	07	07	07	07		
500 mg/kg	ANIMAL ID	28	84	36	77	27	87	77	89	77	87	28	38	27	83	28	88	28	77	27	77	27	27	27	28	28	
		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
Pancreas Atrophy		01	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	
Salivary Glands		11	12	33	44	55	66	77	88	99	00	11	22	33	44	55	66	77	88	99	00	11	22	33	44	55	
Stomach, Forestomach Cyst		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ulcer																											
Epithelium, Hyperplasia																											
Stomach, Glandular Inflammation, Chronic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineralization																											
Ulcer																											

Pancreas Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach Cyst	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ulcer																											
Epithelium, Hyperplasia																											
Stomach, Glandular Inflammation, Chronic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineralization																											
Ulcer																											

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	2	1	1	1		2	1	1									2	1	2	1	2	1	2	1	2	2	
Endocardium, Hyperplasia																											

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cytoplasmic Alteration																											
Hyperplasia																											
Metaplasia, Osseous																											
Necrosis																											

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+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis

Preputial Gland Inflammation

Prostate

* .. Total animals with tissue examined

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

with lesion and mean severity grad

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum Ulcer	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parasite Metazoan																						1 2.0
Ulcer																						1 2.0
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Basophilic Focus	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	24
Clear Cell Focus	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	43
Congestion																						1 1.0
Fatty Change	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	3	1	1		30 1.2
Hepatodiaphragmatic Nodule																						2
Inflammation, Suppurative																						1 4.0
Mixed Cell Focus	X	X			X	X	X	X							X	X						12
Bile Duct, Hyperplasia										1	1	2	1					1	2			7 1.3

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Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/23/2013

Test Type: CHRONIC

Tetrabromobisphenol A

Time Report Requested: 15:06:23

Route: GAVAGE

CAS Number: 79-94-7

First Dose M/F: 07/25/07 / 07/26/07

Species/Strain: RATS/Wistar Han

Lab: BAT

WISTAR HAN RATS MALE	500 mg/kg	DAY ON TEST	ANIMAL ID	* TOTALS																									
				07	07	06	07	07	07	07	07	07	07	06	07	07	05	07	06	07	07	07	06	07	07	06	07	06	
Pancreas		+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1 1.0	
Atrophy																													
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Cyst																													1 2.0
Ulcer																													2 1.5
Epithelium, Hyperplasia																													1 2.0
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation, Chronic																													1 2.0
Mineralization																													4 1.5
Ulcer																													1 2.0
CARDIOVASCULAR SYSTEM																													
Blood Vessel		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Heart		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Cardiomyopathy																													23 1.4
Endocardium, Hyperplasia																													1 2.0
ENDOCRINE SYSTEM																													
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	49		
Cytoplasmic Alteration																													1 1.0
Hyperplasia																													6 1.2
Metaplasia, Osseous																													1 1.0
Necrosis																													1 3.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

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Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis

Preputial Gland
Inflammation

Prostate

* .. Total animals with tissue examined

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

with lesion and mean severi

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Experiment Number: 20320 - 03
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 Route: GAVAGE
 Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/23/2013
 Time Report Requested: 15:06:23
 First Dose M/F: 07/25/07 / 07/26/07
 Lab: BAT

WISTAR HAN RATS MALE	500 mg/kg	DAY ON TEST																					* TOTALS
			07	07	06	07	07	07	07	07	06	07	06	07	07	05	07	06	07	07	07	07	
ANIMAL ID	27	29	33	88	77	22	22	22	22	29	87	22	22	22	22	21	21	21	23	28	29	24	
Inflammation			3	1							1		1		1			2	1	3		12 1.5	
Seminal Vesicle Inflammation			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
																		1	4			2 2.5	
Testes			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Edema			3	1	1	1	1	1	2	1	1	3	1	1	1	1	1	2	2	1	1	2	37 1.4
Arteriole, Necrosis, Fibrinoid																							1 3.0
Germinal Epithelium, Atrophy																							1 3.0
HEMATOPOIETIC SYSTEM																							
Bone Marrow			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymph Node																							2
Renal, Ectasia																							1 3.0
Lymph Node, Mandibular			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymph Node, Mesenteric			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Ectasia																							1 3.0
Spleen			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hematopoietic Cell Proliferation																							9 1.8
Thymus			+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	49	
Atrophy			3	4	2	2	3	3	3	4	3	3	2	3	3	3	3	2	3	4	4	2	44 2.9
INTEGUMENTARY SYSTEM																							
Mammary Gland			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/23/2013

Test Type: CHRONIC

Tetrabromobisphenol A

Time Report Requested: 15:06:23

Route: GAVAGE

CAS Number: 79-94-7

First Dose M/F: 07/25/07 / 07/26/07

Species/Strain: RATS/Wistar Han

Lab: BAT

		DAY ON TEST	0 7	0 7	0 6	0 7	0 7	0 7	0 7	0 7	0 6	0 7	0 7	0 7	0 7	0 5	0 7	0 6	0 7	0 7	0 6			
		ANIMAL ID	2 2	2 9	4 3	2 8	2 7	2 9	2 8	2 9	2 9	2 0	2 8	2 9	2 5	2 9	2 7	2 8	1 1	2 3	2 8	2 9	4 4	* TOTALS
WISTAR HAN RATS MALE	500 mg/kg		0 0																					
Skin Ulcer			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 3 3.0	
MUSCULOSKELETAL SYSTEM			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 3 3.0	
Bone			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 3 3.0	
NERVOUS SYSTEM			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 9 2.2	
Brain Compression			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 9 2.2	
Peripheral Nerve Axon, Degeneration																							1 1 2.0	
Spinal Cord Axon, Degeneration																							1 1 2.0	
RESPIRATORY SYSTEM			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 6 1.3	
Lung Inflammation, Chronic Bronchiale, Hyperplasia																							1 1 1.0	
Nose Inflammation Olfactory Epithelium, Degeneration			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 7 1.6	
																							2 2 2.0	
Trachea			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 3 3.0	

SPECIAL SENSES SYSTEM

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Date Report Requested: 01/23/2013

Test Type: CHRONIC

Tetrabromobisphenol A

Time Report Requested: 15:06:23

Route: GAVAGE

CAS Number: 79-94-7

First Dose M/F: 07/25/07 / 07/26/07

Species/Strain: RATS/Wistar Han

Lab: BAT

WISTAR HAN RATS MALE	500 mg/kg	DAY ON TEST																					* TOTALS		
			0 7	0 7	0 6	0 7	0 7	0 7	0 7	0 7	0 6	0 7	0 7	0 6	0 7	0 7	0 5	0 7	0 6	0 7	0 7	0 6			
ANIMAL ID	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Cataract																								1 3.0	
Retina, Atrophy																								3 2.3	
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hyperplasia																								1 1.0	
URINARY SYSTEM																									
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Cyst			X					X										X							4
Hydronephrosis																									1 2.0
Metaplasia, Lipocyte																									1 1.0
Nephropathy																									35 1.2
Pelvis, Inflammation, Suppurative																									2 1.5
Renal Tubule, Accumulation, Hyaline Droplet																									1 3.0
Renal Tubule, Dilatation																									1 3.0
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation																									1 4.0

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Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

WISTAR HAN RATS MALE	1000 mg/kg	DAY ON TEST																					males (cont...)		
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	07	06	07	07	07	07	07	05	07	07	07	07	07	06	07	07	03	07	06	07	07	07	07	07	males (cont...)
		27	27	22	22	22	22	21	22	22	22	22	22	20	22	22	28	22	20	22	22	28	22	28	
		27	27	29	28	7	9	7	7	7	7	7	8	5	8	7	7	7	7	9	8	7	9	28	
		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
		11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	
		66	66	66	66	66	66	66	67	66	67	67	67	67	67	67	67	67	67	68	68	68	68	68	
		11	12	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	4	5	

ALIMENTARY SYSTEM

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Lab: BAT

WISTAR HAN RATS MALE	1000 mg/kg	DAY ON TEST	males (cont...)																								
			07	06	07	07	07	07	07	07	07	07	06	07	07	03	07	06	07	07	07	07	07	07	07	07	
ANIMAL ID	02	02	02	02	02	02	02	01	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																											1
Vacuolization Cytoplasmic		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
Islets, Pancreatic		11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	
Parathyroid Gland		66	66	66	66	66	66	66	67	67	67	67	67	67	67	67	67	67	67	67	67	68	68	68	68	68	
Hyperplasia		12	24	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	4	5	7	8		
Pituitary Gland		M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																											1
Pars Distalis, Hyperplasia																											2
Pars Intermedia, Hyperplasia																											1
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia		1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Follicle, Hyperplasia																											1

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis

Preputial Gland
InflammationProstate
Fibrosis

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

males
(cont...)

Skin Ulcer

MUSCULOSKELETAL SYSTEM

Bone
Osteosclerosis

Skeletal Muscle

NERVOUS SYSTEM

Brain
Compression
Gliosis

RESPIRATORY SYSTEM

- Lung
 - Foreign Body
 - Inflammation, Granulomatous
 - Inflammation, Chronic
 - Metaplasia, Osseous
 - Bronchiole, Hyperplasia
 - Vein, Necrosis

Nose
Inflammation
Goblet Cell, Hyperplasia

Trachea

- * .. Total animals with tissue examined
- + .. Tissue examined microscopically
- X .. Lesion present
- | .. Insufficient tissue

with lesion and mean severity grade
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

		DAY ON TEST	0 7	0 6	0 7	0 7	0 7	0 5	0 7	0 7	0 7	0 6	0 7	0 7	0 3	0 7	0 6	0 7	0 7	0 7	0 7	0 7	0 7	
		WISTAR HAN RATS MALE	2 7	2 7	2 2	2 2	2 2	1 2	2 1	2 2	2 2	2 2	2 2	2 0	2 2	2 8	2 7	2 9	2 8	2 7	2 9	2 9	2 8	2 8
1000 mg/kg		ANIMAL ID	7 2	2 9	8 7	7 9	7 7	8 7	9 8	7 7	9 7	7 8	8 5	8 8	7 7	7 7	8 9	2 7	2 9	2 8	2 9	2 9	2 8	2 8

males
(cont...)

Perforation

SPECIAL SENSES SYSTEM

Eye

+ +

Harderian Gland
Hyperplasia

+ +

1

URINARY SYSTEM

Kidney

+ +

Cyst

X

Hydronephrosis

3

Infarct

X

Inflammation, Suppurative

2

Inflammation, Chronic

2

Metaplasia, Osseous

Nephropathy

2 1 1 2 1

Pelvis, Inflammation, Suppurative

1

1

2

1

1

1

1

1

1

1

1

1

1

Urinary Bladder

+ +

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Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

| WISTAR HAN RATS MALE | 1000 mg/kg | ANIMAL ID | DAY ON TEST | | | | | | | | | | | | | | | | | | * TOTALS | |
|----------------------|------------|-----------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|--|
| | | | 07 | 07 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | 07 | 05 | 04 | 07 | 07 | 07 | 05 | 07 | 07 | 06 | |
| | | | 228 | 227 | 229 | 227 | 227 | 201 | 284 | 288 | 277 | 277 | 278 | 21 | 27 | 29 | 29 | 29 | 28 | 27 | 28 | |
| | | | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | | |
| | | | 118 | 119 | 119 | 119 | 119 | 119 | 120 | 120 | 120 | 120 | 120 | 120 | 122 | 122 | 122 | 122 | 122 | 122 | | |
| | | | 999 | 923 | 935 | 967 | 990 | 901 | 922 | 933 | 944 | 967 | 979 | 900 | 911 | 921 | 931 | 945 | 966 | 977 | 988 | |

ALIMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

I .. Insufficient tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20320 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/23/2013
 Time Report Requested: 15:06:23
 First Dose M/F: 07/25/07 / 07/26/07
 Lab: BAT

| WISTAR HAN RATS MALE | 1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---------------------------------|------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|-------|
| | | | 07 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | 07 | 05 | 04 | 07 | 07 | 07 | 05 | 07 | 07 | 06 | 07 | | | |
| ANIMAL ID | 22 | 22 | 22 | 22 | 20 | 23 | 22 | 22 | 22 | 23 | 21 | 27 | 29 | 29 | 29 | 29 | 28 | 22 | 22 | 27 | 28 | | | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | 2 | 3 | 2 2.5 |
| Pancreas | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Salivary Glands | | | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 49 | |
| Stomach, Forestomach | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Stomach, Glandular | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Epithelium, Glands, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Aorta, Mineralization | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Heart | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | 30 | 1.2 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 9 | 1.1 | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | 16 | 1.1 | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis

Preputial Gland Inflammation

Prostate Fibrosis

- * .. Total animals with tissue examined
- + .. Tissue examined microscopically
- X .. Lesion present
- ! .. Insufficient tissue

Total animals with lesion and mean severity grade
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
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Tetrabromobisphenol A

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CAS Number: 79-94-7

First Dose M/F: 07/25/07 / 07/26/07

Species/Strain: RATS/Wistar Han

Lab: BAT

| WISTAR HAN RATS MALE | 1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------------------|------------|-------------|-------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|----------|
| | | | 0
7 | 0
7 | 0
7 | 0
5 | 0
7 | 0
5 | 0
7 | 0
7 | 0
7 | 0
5 | 0
4 | 0
7 | 0
7 | 0
7 | 0
5 | 0
7 | 0
7 | 0
6 | 0
7 | | |
| ANIMAL ID | | 0
2
8 | 7
2
7 | 7
2
7 | 7
0 | 2
3 | 2
8 | 4
8 | 7
7 | 7
2 | 7
2 | 8
1 | 7
7 | 2
1 | 7
7 | 2
9 | 9
4 | 2
8 | 2
8 | 2
7 | 2
2 | 7
8 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | 14 1.3 |
| Seminal Vesicle Inflammation | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 1 1.0 | |
| Testes | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 36 1.2 | |
| Edema | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 36 2 3.5 |
| Germinal Epithelium, Atrophy | | | | | | | | | | | | | | | | | | | | | | | 4 2 1.5 |
| Germinal Epithelium, Mineralization | | | | | | | | | | | | | | | | | | | | | | | 2 2 1.5 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mandibular | | | + | + | + | + | M | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 48 | |
| Lymph Node, Mesenteric Ectasia | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 4 3.0 | |
| Spleen | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | 10 1.3 |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Thymus | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 45 3.2 | |
| Atrophy | | | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 1 | 2 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

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I .. Insufficient tissue

BLANK .. Not examined microscopically

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Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

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Test Type: CHRONIC

Tetrabromobisphenol A

Time Report Requested: 15:06:23

Route: GAVAGE

CAS Number: 79-94-7

First Dose M/F: 07/25/07 / 07/26/07

Species/Strain: RATS/Wistar Han

Lab: BAT

| | | DAY ON TEST | 0
7 | 0
7 | 0
7 | 0
5 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
5 | 0
4 | 0
7 | 0
7 | 0
7 | 0
5 | 0
7 | 0
7 | 0
6 | 0
7 | | |
|--|--|----------------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | WISTAR HAN RATS MALE | 2
2 | 2
2 | 2
2 | 2
0 | 2
3 | 2
2 | 2
2 | 2
2 | 2
2 | 2
3 | 4 | 2
1 | 7 | 2
9 | 2
9 | 2
9 | 2
9 | 2
8 | 2
7 | 2
8 | |
| | | 1000 mg/kg | 8
7 | 7
9 | 7
7 | 7
1 | 8
4 | 8
7 | 7
7 | 7
7 | 7
8 | 7
1 | 7
7 | 7
1 | 7
7 | 7
9 | 7
9 | 7
4 | 8
8 | 7
8 | 7
2 | 7
8 | |
| | | ANIMAL ID | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | |
| | | | 1
1 | 1
1 | 1
1 | 1
1 | 1
2 | 2
2 | |
| | | | 8
9 | 9
9 | 9
9 | 9
9 | 9
0 | 0
0 | 0
1 | 1
1 | |
| | | | 9
2 | 2
3 | 3
5 | 5
6 | 7
7 | 9
9 | 0
0 | 1
2 | 2
3 | 3
4 | 6
6 | 7
7 | 9
9 | 0
0 | 1
1 | 2
2 | 3
3 | 4
4 | 5
5 | 6
6 | 7
7 |
| | | | * TOTALS | | | | | | | | | | | | | | | | | | | | |
| | | Perforation | 3 | | | | | | | | | | | | | | | | | | | | |
| | | | 1 3.0 | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Harderian Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

2 1.0

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | 3 |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Infarct | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Nephropathy | 1 | 1 | 1 | 2 | 1 | 1 | | | | 1 | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 31 1.1 |
| Pelvis, Inflammation, Suppurative | 1 | | | | | | | | | | | | | | | | | | | | | 5 1.6 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

*** END OF MALE DATA ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

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Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/23/2013

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

Tetrabromobisphenol A

CAS Number: 79-94-7

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ALIMENTARY SYSTEM

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Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

| WISTAR HAN RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 0 mg/kg | ANIMAL ID | 3 | 6 | 5 | 2 | 2 | 3 | 2 | 6 | 6 | 6 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | 1 | 1 | | | | | 1 |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endocardium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 2 |

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

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Lab: BAT

Myocardium, Mineralization

ENDOCRINE SYSTEM

GENERAL BODY SYSTEM

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Lab: BAT

| WISTAR HAN RATS FEMALE | 0 mg/kg | ANIMAL ID | DAY ON TEST | | | | | | | | | | | | | | | females
(cont...) | |
|------------------------|---------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 3 | 6 | 7 | 7 | 7 | 7 | 3 | 6 | 4 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 7 | 7 |
| 6 | 5 | 2 | 2 | 3 | 2 | 6 | 6 | 6 | 6 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 3 | 2 |
| 4 | 4 | 6 | 9 | 6 | 0 | 8 | 4 | 8 | 4 | 4 | 9 | 9 | 9 | 0 | 0 | 5 | 5 | 0 | 9 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
| 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 3 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 |

NONE

GENITAL SYSTEM

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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Species/Strain: RATS/Wistar Han

Lab: BAT

| WISTAR HAN RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
|----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|--|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 0 mg/kg | ANIMAL ID | 3 | 6 | 7 | 7 | 7 | 7 | 3 | 6 | 4 | 3 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | 6 | 5 | 2 | 2 | 3 | 2 | 6 | 6 | 6 | 6 | 2 | 2 | 2 | 2 | 3 | 3 | 4 | 5 | 5 | 3 | 0 | 2 | 2 | 2 | 3 | |
| Lymph Node, Mesenteric | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Spleen | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 4 | 2 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Galactocele | | | | X | X | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hippocampus, Necrosis | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/23/2013

Test Type: CHRONIC

Tetrabromobisphenol A

Time Report Requested: 15:06:23

Route: GAVAGE

CAS Number: 79-94-7

First Dose M/F: 07/25/07 / 07/26/07

Species/Strain: RATS/Wistar Han

Lab: BAT

| WISTAR HAN RATS FEMALE | 0 mg/kg | ANIMAL ID | DAY ON TEST | | | | | | | | | | | | | | | females
(cont...) | | |
|------------------------|---------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|---|
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 3 | 6 | 7 | 7 | 7 | 7 | 3 | 6 | 4 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 7 | 7 | 0 |
| 6 | 5 | 2 | 2 | 3 | 2 | 6 | 6 | 6 | 6 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 3 | 2 | 3 |
| 4 | 4 | 6 | 9 | 6 | 0 | 8 | 4 | 8 | 4 | 4 | 9 | 9 | 9 | 0 | 0 | 5 | 5 | 0 | 9 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 3 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

Inflammation

**females
(cont...)**

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grad

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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Experiment Number: 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

| WISTAR HAN RATS FEMALE | 0 mg/kg | ANIMAL ID | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|------------------------|---------|-----------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| | | | 0
7
2
9 | 0
7
2
5 | 0
7
2
8 | 0
7
3
0 | 0
7
2
8 | 0
7
3
0 | 0
7
3
0 | 0
7
2
9 | 0
6
5
4 | 0
6
5
4 | 0
7
2
9 | 0
5
4
6 | 0
7
2
8 | 0
7
3
0 | 0
7
2
9 | 0
7
2
8 | 0
7
2
9 | 0
7
2
8 | 0
7
2
9 | | | | |
| | | | 0
0
0
0
2
4
9 | 0
0
0
0
2
5
3 | 0
0
0
0
2
5
4 | 0
0
0
0
2
5
7 | 0
0
0
0
2
5
8 | 0
0
0
0
2
5
9 | 0
0
0
0
2
6
0 | 0
0
0
0
2
6
1 | 0
0
0
0
2
6
2 | 0
0
0
0
2
6
3 | 0
0
0
0
2
6
4 | 0
0
0
0
2
6
5 | 0
0
0
0
2
6
7 | 0
0
0
0
2
6
8 | 0
0
0
0
2
7
1 | 0
0
0
0
2
7
2 | 0
0
0
0
2
7
3 | 0
0
0
0
2
7
4 | 0
0
0
0
2
7
5 | 0
0
0
0
2
7
6 | 0
0
0
0
2
7
7 | 0
0
0
0
2
7
8 | 0
0
0
0
2
7
9 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Perforation | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | 3 1.0 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Basophilic Focus | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 47 |
| Clear Cell Focus | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 24 |
| Congestion | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | 1 |
| Fatty Change | | | | | | | | | | | | | | | | | | | | | | 11 1.3 |
| Hematopoietic Cell Proliferation | 1 | | | | 1 | 1 | | 2 | | | | | | | | | | | | | | 1 1.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mixed Cell Focus | X | X | X | X | X | X | | | | | | | | | | | | | | | | 13 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

| WISTAR HAN RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|------------------------------|-------------|----------------------------|-----------------------|-----------------------|-----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|--------|
| | | 0
7
2
9 | 0
7
2
5 | 0
7
2
8 | 0
7
3
0 | 0
7
2
8 | 0
7
3
0 | 0
7
3
0 | 0
7
2
9 | 0
7
3
0 | 0
6
5
4 | 0
6
5
4 | 0
7
2
9 | 0
5
4
6 | 0
7
2
8 | 0
7
3
0 | 0
7
2
9 | 0
6
5
4 | 0
7
2
8 | 0
7
3
0 | | | |
| 0 mg/kg | ANIMAL ID | 0
0
2
4
9 | 0
0
2
5
3 | 0
0
2
5
4 | 0
0
2
5
6 | 0
0
2
8 | 0
0
2
9 | 0
0
2
0 | 0
0
2
1 | 0
0
2
2 | 0
0
2
3 | 0
0
2
4 | 0
0
2
5 | 0
0
2
6 | 0
0
2
7 | 0
0
2
8 | 0
0
2
9 | 0
0
2
0 | 0
0
2
1 | 0
0
2
2 | 0
0
2
3 | | |
| | | Myocardium, Mineralization | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | 2 | | | | | | | | | | | | | | | | | | | | | 12 2.0 |
| Degeneration, Cystic | | | 3 | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 7 1.6 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Adrenal Medulla | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | 49 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Islets, Pancreatic | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Parathyroid Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | 48 | |
| Pituitary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Pars Distalis, Hyperplasia | | 2 | 2 | | | 2 | | | | | | | | | | | | | | | | | 16 2.3 |
| Pars Intermedia, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Thyroid Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| C-cell, Hyperplasia | | 1 | 1 | 1 | 1 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | | | | | | | | | | 32 1.4 |
| Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

GENERAL BODY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20320 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/23/2013
 Time Report Requested: 15:06:23
 First Dose M/F: 07/25/07 / 07/26/07
 Lab: BAT

| WISTAR HAN RATS FEMALE | 0 mg/kg | ANIMAL ID | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------------|---------|-----------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
| | | | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 06 | 06 | 07 | 05 | 07 | 07 | 06 | 05 | 07 | |
| | | | 29 | 5 | 8 | 9 | 0 | 8 | 0 | 3 | 0 | 3 | 9 | 0 | 5 | 4 | 9 | 6 | 8 | 3 | 2 | 4 | 9 |
| | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| | | | 24 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 |
| | | | 9 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | 5 |

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 4 1.0 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Stromal Hyperplasia, Mixed Cell | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Bilateral, Cyst | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Bursa, Dilatation | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Rete Ovarii, Cyst | | | | | | | | | | | | | | | | | | | | | | | X 1 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | 7 2.0 |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | 8 2.1 |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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 CAS Number: 79-94-7

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| WISTAR HAN RATS FEMALE | 0 mg/kg | ANIMAL ID | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|----------------------------------|---------|-----------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | | | 07
29 | 07
25 | 07
22 | 07
28 | 07
30 | 07
08 | 07
00 | 07
03 | 07
09 | 07
00 | 07
03 | 06
00 | 06
05 | 07
04 | 07
06 | 07
02 | 07
03 | 07
09 | 07
02 | 07
06 | 05
04 | 07
09 | 05
08 | 07
09 | 06
02 | 05
08 | |
| Lymph Node, Mesenteric | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Spleen | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | | | | | 1 | 2 | 1 | | | | 1 | 4 | | 2 | 2 | | | | | 1 | | 1 | | 1 | 4 | 1 | | 26 1.5 | |
| Lymphoid Follicle, Atrophy | | | | | 3 | | | | | | | | | | | | | | | 2 | | | | | | | | 3 2.3 | |
| Thymus | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | 2 | 4 | 2 | 1 | 4 | 2 | 2 | 1 | 2 | 2 | 1 | 3 | 3 | 3 | 4 | 2 | | 1 | 2 | 1 | 4 | | 2 | | 43 2.0 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Galactocele | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Skin | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Compression | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | 11 2.8 |
| Hippocampus, Necrosis | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | 1 3.0 |
| Meninges, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/23/2013

Test Type: CHRONIC

Tetrabromobisphenol A

Time Report Requested: 15:06:23

Route: GAVAGE

CAS Number: 79-94-7

First Dose M/F: 07/25/07 / 07/26/07

Species/Strain: RATS/Wistar Han

Lab: BAT

| WISTAR HAN RATS FEMALE | 0 mg/kg | ANIMAL ID | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-----------------------------------|---------|-----------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----|----------|
| | | | 0
7
2
9 | 0
7
2
5 | 0
7
2
8 | 0
7
3
0 | 0
7
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8 | 0
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9 | 0
7
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9 | 0
7
2
9 | 0
6
5
0 | 0
6
5
4 | 0
7
2
9 | 0
5
4
6 | 0
7
2
8 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | | |
| Lung | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Bronchiole, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Nose | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 11 1.8 |
| Trachea | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Degeneration | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Malformation | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Harderian Gland | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Nephropathy | | | | | | | | | | | | | | | | | | | | | | | | 9 1.3 |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Renal Tubule, Autolysis | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Urinary Bladder | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/23/2013

Test Type: CHRONIC

Tetrabromobisphenol A

Time Report Requested: 15:06:23

Route: GAVAGE

CAS Number: 79-94-7

First Dose M/F: 07/25/07 / 07/26/07

Species/Strain: RATS/Wistar Han

Lab: BAT

Inflammation

3

1 3.0

*** TOTALS**

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

I .. Insufficient tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20320 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/23/2013
 Time Report Requested: 15:06:23
 First Dose M/F: 07/25/07 / 07/26/07
 Lab: BAT

| WISTAR HAN RATS FEMALE | 250 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
|---------------------------|-----------|-------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---|---|----------------------|--|
| | | | 0
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8 | 0
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8 | 0
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3 | 0
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6 | 0
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3 | 0
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5
9 | | | | | |
| ANIMAL ID | | | 0
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8 | 0
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9 | 0
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2
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2 | 0
0
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1 | | | | |
| Esophagus | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large, Cecum | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Small, Ileum | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Small, Jejunum | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Liver | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| Clear Cell Focus | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fatty Change | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

Date Report Requested: 01/23/2013

Blood Vessel

Heart

Cardiomyopathy

Endocardium, Hyperplasia

ENDOCRINE SYSTEM

- * .. Total animals with
- + .. Tissue examined
- X .. Lesion present
- | .. Insufficient tissue

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically M .. Missing tissue
X .. Lesion present A .. Autolysis precludes evaluation
I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

GENERAL BODY SYSTEM

NONE

GFNITAI SYSTEM

Clitoral Gland

* .. Total animals with tissue examined

M Missing tissue

+ .. Tissue examine

X .. Lesion present

M .. Missing tissue

A .. Autolysis precludes evaluation
PLANIC: Not recommended

BLANK .. Not examined microscopically

1-4 Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

| WISTAR HAN RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
|-------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------------------|--|
| | | 07 | 07 | 07 | 07 | 07 | 07 | 03 | 03 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 06 | 06 | 07 | |
| 250 mg/kg | ANIMAL ID | 28 | 29 | 28 | 29 | 29 | 22 | 28 | 35 | 24 | 20 | 29 | 22 | 23 | 29 | 20 | 29 | 28 | 22 | 29 | 28 | 29 | 24 | 23 | 26 | 29 | |
| | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| Red Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Galactocele | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/Wistar Han

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

| WISTAR HAN RATS FEMALE | DAY ON TEST | 250 mg/kg | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|------------------------|-------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 3 | 3 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 |
| | 2 | 2 | 2 | 2 | 2 | 5 | 2 | 2 | 8 | 3 | 5 | 2 | 3 | 3 | 2 | 9 | 2 | 9 | 2 | 8 | 2 | 9 |
| | 8 | 9 | 8 | 9 | 9 | 2 | 9 | 8 | 3 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 |

Urinary Bladder

females (cont...)

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grad

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20320 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/23/2013
 Time Report Requested: 15:06:23
 First Dose M/F: 07/25/07 / 07/26/07
 Lab: BAT

| WISTAR HAN RATS FEMALE | 250 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|----------|
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | | 7 | 5 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 4 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | |
| | | 3 | 2 | 5 | 3 | 2 | 3 | 3 | 1 | 2 | 3 | 1 | 3 | 3 | 2 | 9 | 2 | 3 | 8 | 2 | 2 | 3 | 3 | 6 | 2 | 3 | 0 |
| | | 0 | 0 | 7 | 8 | 0 | 9 | 0 | 0 | 4 | 9 | 0 | 3 | 6 | 0 | 2 | 2 | 8 | 0 | 3 | 8 | 2 | 9 | 0 | 4 | 9 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Esophagus | | | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Intestine Large, Cecum | | | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Intestine Large, Colon | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Intestine Large, Rectum | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Intestine Small | | | + | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Duodenum | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Ileum | | | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Intestine Small, Jejunum | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Liver | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Basophilic Focus | | | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 38 | |
| Clear Cell Focus | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 19 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Fatty Change | | | 1 | 2 | | 1 | 1 | 1 | 3 | | 1 | | | | | | | | | | | | | | | 12 1.3 | |
| Inflammation, Suppurative | | | | | 1 | | | | | X | X | X | X | X | | | | | | | | | | | | 1 1.0 | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | 22 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/Wistar Han

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X., Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland

* .. Total animals with tissue examined

+ .. Tissue examine

X .. Lesion present

I .. Insufficient tissue

with lesion and mean severity grad

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/23/2013

Test Type: CHRONIC

Tetrabromobisphenol A

Time Report Requested: 15:06:23

Route: GAVAGE

CAS Number: 79-94-7

First Dose M/F: 07/25/07 / 07/26/07

Species/Strain: RATS/Wistar Han

Lab: BAT

| WISTAR HAN RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|----------------------------------|-------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| | | 0
7
3
0 | 0
5
2
0 | 0
6
5
7 | 0
7
3
0 | 0
7
1
4 | 0
6
2
9 | 0
7
3
0 | 0
6
3
6 | 0
7
2
0 | 0
7
2
2 | 0
4
2
2 | 0
7
2
8 | 0
5
2
3 | 0
7
2
8 | 0
7
2
9 | 0
7
2
0 | 0
7
3
0 | 0
7
6
4 | 0
7
2
9 | 0
7
3
0 | | | | |
| 250 mg/kg | ANIMAL ID | 0
0
0
3
0
6 | 0
0
0
3
0
7 | 0
0
0
3
0
8 | 0
0
0
3
0
9 | 0
0
0
3
1
0 | 0
0
0
3
1
1 | 0
0
0
3
1
2 | 0
0
0
3
1
3 | 0
0
0
3
1
4 | 0
0
0
3
1
5 | 0
0
0
3
1
6 | 0
0
0
3
1
7 | 0
0
0
3
1
8 | 0
0
0
3
1
9 | 0
0
0
3
2
0 | 0
0
0
3
2
1 | 0
0
0
3
2
2 | 0
0
0
3
2
3 | 0
0
0
3
2
4 | 0
0
0
3
2
5 | 0
0
0
3
2
6 | 0
0
0
3
2
7 | 0
0
0
3
2
8 | 0
0
0
3
2
9 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 | | |
| Ovary | | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Cyst | | X | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Bursa, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Uterus | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 4 2.5 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 1 1 | |
| Cervix, Hyperplasia, Stromal | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Vagina | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | 13 1.5 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Mediastinal, Congestion | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Lymph Node, Mandibular | | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Spleen | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hematopoietic Cell Proliferation | | 1 | | 2 | 2 | 1 | | 4 | 1 | 3 | | 1 | 3 | | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 30 1.5 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

- 1) Minimal
- 3) Moderate
- 2) Mild
- 4) Marked

Experiment Number: 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

| WISTAR HAN RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-----------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|----------|
| | | 0
7 | 0
5 | 0
6 | 0
7 | 0
7 | 0
7 | 0
6 | 0
7 | 0
7 | 0
6 | 0
7 | 0
7 | 0
4 | 0
7 | 0
7 | 0
5 | 0
7 | 0
7 | 0
7 | 0
6 | 0
7 | | |
| 250 mg/kg | ANIMAL ID | 3
0 | 2
7 | 5
8 | 3
0 | 2
9 | 3
0 | 1
0 | 4
9 | 2
0 | 3
3 | 6
0 | 2
1 | 2
1 | 2
8 | 2
0 | 3
3 | 2
8 | 2
9 | 3
0 | 3
4 | 2
9 | 3
0 | * TOTALS |
| | | 3
3 | | |
| Lung | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Bronchiole, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Nose | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 8 1.4 |
| Trachea | | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | + | M | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Harderian Gland | | + | M | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Nephropathy | | | | | | | | | | | | | | | | | | | | | | | | 2 1.1 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 4 1.5 |
| Renal Tubule, Autolysis | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

| WISTAR HAN RATS FEMALE
250 mg/kg | | DAY ON TEST | Urinary Bladder | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|-----------------|-------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | | | Urinary Bladder | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | Urinary Bladder | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 4 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | |
| | 3 | 2 | 5 | 3 | 2 | 3 | 3 | 1 | 2 | 3 | 1 | 3 | 3 | 2 | 9 | 2 | 8 | 3 | 8 | 2 | 2 | 3 | |
| | 0 | 7 | 8 | 0 | 9 | 0 | 0 | 4 | 9 | 0 | 3 | 6 | 0 | 2 | 2 | 8 | 0 | 3 | 8 | 2 | 9 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 |
| 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

Urinary Bladder

*** TOTALS**

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20320 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/23/2013
 Time Report Requested: 15:06:23
 First Dose M/F: 07/25/07 / 07/26/07
 Lab: BAT

| WISTAR HAN RATS FEMALE | 500 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 5 | 5 | 4 | 4 | 5 | 9 | 7 | 6 | 7 | 3 | 7 | 4 | 7 | 7 | 7 | 3 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | | females
(cont...) |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 1 | 2 | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Basophilic Focus | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| Clear Cell Focus | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fatty Change | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20320 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/23/2013
 Time Report Requested: 15:06:23
 First Dose M/F: 07/25/07 / 07/26/07
 Lab: BAT

| WISTAR HAN RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | |
|---|-------------|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--------|----------------------|--------|--------|
| | | 0
5
4
5 | 0
7
2
9 | 0
7
0
9 | 0
7
3
0 | 0
7
2
1 | 0
7
8
0 | 0
7
2
9 | 0
7
3
0 | 0
7
3
1 | 0
7
8
0 | 0
7
3
9 | | | | |
| 500 mg/kg | ANIMAL ID | 0
0
0
3
3
1 | 0
0
0
3
3
2 | 0
0
0
3
3
7 | 0
0
0
3
3
0 | 0
0
0
3
3
1 | 0
0
0
3
3
8 | 0
0
0
3
3
9 | | | | |
| | | Hyperplasia
Vacuolization Cytoplasmic | | 1
1 | | | | | | | | | | | | | | | | | | | | | | 2
2 | 1
1 | |
| Adrenal Medulla
Thrombosis | | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
3 | | | |
| Islets, Pancreatic
Hyperplasia | | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
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+ | +
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+ | +
+ | +
+ | +
+ | +
+ | +
+ | | | |
| Parathyroid Gland | | +
M | +
+ | +
+ | | | |
| Pituitary Gland
Cyst | | +
+ | +
+ | +
+ | +
+ | +
+ | +
+ | +
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+ | +
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+ | +
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+ | +
+ | +
+ | +
+ | +
+ | | | |
| Pars Distalis, Hyperplasia
Pars Intermedia, Hyperplasia | | 1
1 | | 1
1 | 1
1 | 2
2 | | | | | | | | | | | | | | | | | | | | 2
2 | 1
1 | 2
2 |
| Thyroid Gland
C-cell, Hyperplasia
Follicle, Hyperplasia | | +
1 | +
2 | +
1 | +
1 | +
1 | +
1 | +
2 | +
1 | +
1 | +
1 | +
2 | +
1 | +
1 | +
1 | +
1 | +
2 | +
1 | +
2 | +
1 | +
2 | +
1 | +
1 | +
2 | +
1 | +
1 | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Clitoral Gland
Hyperplasia
Inflammation | +
1 | +
+ | |
| Ovary | +
1 | +
+ | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

| WISTAR HAN RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | |
|----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|--|--|--|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| 500 mg/kg | ANIMAL ID | 5 | 7 | 7 | 6 | 7 | 7 | 3 | 7 | 4 | 7 | 7 | 7 | 3 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | | | | |
| | | 4 | 2 | 2 | 0 | 3 | 2 | 2 | 3 | 8 | 2 | 2 | 2 | 1 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | | | |
| | | 5 | 9 | 9 | 7 | 0 | 9 | 1 | 0 | 8 | 8 | 9 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | | | | |
| Cyst | | | | | | X | X | | | | X | | | | | | | | | | | | | | | | | | |
| Bursa, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rete Ovarii, Cyst | | | | | | X | X | | | X | X | | | | | | | | | | | | | | | | | | |
| Uterus | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Dilatation | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Glandular, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervix, Hyperplasia, Stromal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymph Node, Mediastinal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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Experiment Number: 20320 - 03

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Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

Tetrabromobisphenol A

CAS Number: 79-94-7

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First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

females
(cont...)

INTEGUMENTARY SYSTEM

Mammary Gland
Galactocele

Skin
Inflammation
Ulcer

MUSCULOSKELETAL SYSTEM

Bone
Hyperplasia

Skeletal Muscle

NERVOUS SYSTEM

Brain Compression

RESPIRATORY SYSTEM

Lung
Congestion
Inflammation. Chronic

Total animals with lesion and mean severity grade

+ Tissue examined microscopically

M Missing tissue

X Lesion present

| Insufficient tissue

M .. Missing tissue
A Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 Lesion qualified as:

Lesion qualified as:

Experiment Number: 20320 - 03

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Date Report Requested: 01/23/2013

Test Type: CHRONIC

Tetrabromobisphenol A

Time Report Requested: 15:06:23

Route: GAVAGE

CAS Number: 79-94-7

First Dose M/F: 07/25/07 / 07/26/07

Species/Strain: RATS/Wistar Han

Lab: BAT

| WISTAR HAN RATS FEMALE | 500 mg/kg | DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | |
|-----------------------------------|-----------|-------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|---|---|
| | | | 0545 | 0729 | 0707 | 0622 | 0703 | 0722 | 0329 | 0109 | 0808 | 0808 | 0909 | 0707 | 0101 | 0500 | 0300 | 0707 | 0300 | 0500 | 0707 | 0300 | 0500 | 0707 | 0300 | 0500 | 0707 | 0300 | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Trachea | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Harderian Gland | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Autolysis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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 Lab: BAT

| WISTAR HAN RATS FEMALE | 500 mg/kg | ANIMAL ID | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------------|-----------|-----------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
| | | | 07 | 07 | 07 | 04 | 03 | 02 | 06 | 07 | 05 | 05 | 07 | 07 | 05 | 07 | 06 | 07 | 06 | 05 | 06 | 06 | 07 | 05 | 07 | | |
| | | | 29 | 9 | 8 | 6 | 7 | 3 | 7 | 9 | 3 | 3 | 1 | 0 | 0 | 29 | 1 | 8 | 9 | 2 | 9 | 6 | 2 | 8 | 2 | 9 | |
| | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | | | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | |
| | | | 55 | 55 | 55 | 56 | 56 | 56 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 68 | |
| | | | 66 | 77 | 88 | 99 | 00 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 00 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | | | | | | | | | | | | | | 2 | | | | | | | | | 1 2.0 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | 1 | | | | | | | | 2 1.5 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | 1 | | | | | | | 1 1.0 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Basophilic Focus | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 40 |
| Clear Cell Focus | X | X | | | | | | | | | | | | | | | | | | | | | | | | 19 |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Fatty Change | | | | | | | | | | | | | | | | | | | | | | | | | | 7 1.6 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mixed Cell Focus | X | X | | | | | | | | | | | | | | | | | | | | | | | | 12 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.8 |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Bile Duct, Hyperplasia | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | 21 1.1 |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| | | | | | | | | | | | | | | | | | 2 | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

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| WISTAR HAN RATS FEMALE | 500 mg/kg | DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------------------|-----------|-------------|-----------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------|--------|----------|
| | | | | 0
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9 | 0
7
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9 | 0
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9 | 0
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9 | | | |
| Hyperplasia | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | 7 1.7 |
| Vacuolization Cytoplasmic | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | 5 1.4 |
| Adrenal Medulla | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 3.0 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 2.0 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M 48 | | |
| Pituitary Gland | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 14 1.6 |
| Pars Intermedia, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Thyroid Gland | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| C-cell, Hyperplasia | | | | 2 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | 39 1.4 | |
| Follicle, Hyperplasia | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | 3 2.0 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland
 Hyperplasia
 Inflammation

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.0 |

Ovary

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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|----------------------------------|-----------|-------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---|---|----------|--------|
| | | | 0
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| ANIMAL ID | | | 0
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6
8 | 0
0
0
0
3
6
9 | 0
0
0
0
3
7
0 | 0
0
0
0
3
7
1 | 0
0
0
0
3
7
2 | 0
0
0
0
3
7
3 | 0
0
0
0
3
7
4 | 0
0
0
0
3
7
5 | 0
0
0
0
3
7
6 | 0
0
0
0
3
7
7 | 0
0
0
0
3
7
8 | 0
0
0
0
3
7
9 | | | | |
| Cyst | | X | | | | | | | | | | | | | | | | | | | | | | | | | X | 4 |
| Bursa, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 |
| Rete Ovarii, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | 6 |
| Uterus | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.7 |
| Hyperplasia, Glandular, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Cervix, Hyperplasia, Stromal | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 2.8 |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | | 11 2.0 |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|--------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | 49 | | |
| Lymph Node, Mediastinal | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | | 26 1.9 |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

- 1) Minimal
- 3) Moderate
- 2) Mild
- 4) Marked

Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/23/2013

Test Type: CHRONIC

Tetrabromobisphenol A

Time Report Requested: 15:06:23

Route: GAVAGE

CAS Number: 79-94-7

First Dose M/F: 07/25/07 / 07/26/07

Species/Strain: RATS/Wistar Han

Lab: BAT

| WISTAR HAN RATS FEMALE | 500 mg/kg | ANIMAL ID | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------------|-----------|-----------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|----|----------|
| | | | 0
7
2
9 | 0
7
2
9 | 0
4
2
6 | 0
3
7
7 | 0
2
4
3 | 0
6
9
2 | 0
7
2
9 | 0
5
3
3 | 0
5
3
3 | 0
7
3
3 | 0
7
2
9 | 0
5
2
9 | 0
6
2
9 | 0
6
4
2 | 0
6
0
2 | 0
7
8
2 | 0
5
7
2 | 0
6
2
9 | | | |
| Thymus | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | 49 | |
| Atrophy | | | 1 | | 2 | 1 | 2 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 3 | 40 1.8 |
| Cyst | | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 7 | 9 | 1 2.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Galactocele | X | | | | | | | | | | | | | | | | | | X | | | | 2 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

Skeletal Muscle

1

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Compression | | | | | | | | | | | | | | | | | | | | | | 9 3.3 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Congestion | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 3 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

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Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/23/2013

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

Tetrabromobisphenol A

CAS Number: 79-94-7

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

| WISTAR HAN RATS FEMALE | 1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
|------------------------|------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 7 | 7 | 5 | 7 | 0 | 7 | 7 | 0 | 5 | 7 | 0 | 7 | 6 | 6 | 6 | 7 | 5 | 6 | 7 | 7 | 6 | 1 |
| | | 2 | 9 | 2 | 9 | 1 | 9 | 9 | 9 | 1 | 0 | 3 | 0 | 3 | 0 | 4 | 0 | 9 | 5 | 4 | 4 | 8 | 9 | 5 |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 1 | 0 | 0 | 0 | 3 | 4 | 0 | 9 | 4 | 4 | 8 | 9 | 9 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 |
| | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 6 | 7 | 8 |

ALIMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

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Experiment Number: 20320 - 03

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Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

**females
(cont...)**

Mesentery
Fat, Necrosis

Pancreas

Salivary Glands

Stomach, Forestomach
Inflammation, Chronic
Epithelium, Hyperplasi

Stomach, Glandular Mineralization

CARDIOVASCULAR SYSTEM

Blood Vessel

Heart
Cardiomyopathy
Pericardium, Inf

ENDOCRINE SYSTEM

Adrenal Cortex
Angiectasis
Hyperplasia
Inflammation, Suppurative
Mineralization
Vacuolization Cytoplasmic

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grad

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland
Inflammation

Ovary
Cyst
Bursa, Dilatation

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

| WISTAR HAN RATS FEMALE | 1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | |
|-----------------------------------|------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------------------|---|---|
| | | | 07 | 07 | 05 | 07 | 07 | 07 | 05 | 07 | 07 | 06 | 06 | 07 | 05 | 06 | 07 | 07 | 07 | 06 | 01 | 07 | 07 | 07 | 07 | 07 | | | |
| ANIMAL ID | | 29 | 29 | 23 | 29 | 29 | 29 | 29 | 10 | 00 | 30 | 33 | 29 | 54 | 29 | 54 | 29 | 29 | 51 | 19 | 30 | 33 | 33 | 33 | 33 | 33 | | | |
| Mammary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Galactocele | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vein, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Fracture | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bronchiole, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serosa, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Nose | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |

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Experiment Number: 20320 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/23/2013
 Time Report Requested: 15:06:23
 First Dose M/F: 07/25/07 / 07/26/07
 Lab: BAT

| WISTAR HAN RATS FEMALE | 1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------------|------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | | 7 | 6 | 7 | 7 | 6 | 6 | 6 | 7 | 4 | 4 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | |
| | | 2 | 8 | 3 | 2 | 8 | 8 | 8 | 0 | 3 | 6 | 4 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 4 | 2 | 2 |
| | | 8 | 4 | 0 | 8 | 8 | 6 | 7 | 0 | 2 | 2 | 0 | 9 | 0 | 0 | 0 | 0 | 8 | 9 | 8 | 9 | 8 | 0 | 9 | 6 | 8 | 5 |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| | | | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 0 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 4.0 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lymphoid Tissue, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Basophilic Focus | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 47 | |
| Clear Cell Focus | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 18 | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Fatty Change | | | | | | | | | | | | | | | | | | | | | | | | | | | 7 1.0 |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | 20 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 20 1.3 |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

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Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|------------|------------|------------|--|
| | | WISTAR HAN RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1000 mg/kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| 7 | 6 | 7 | 7 | 6 | 6 | 6 | 7 | 4 | 4 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 4 | 7 | 6 | 7 | 2 | | | | | |
| 2 | 8 | 3 | 2 | 8 | 8 | 8 | 6 | 0 | 3 | 6 | 4 | 3 | 2 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 8 | 9 | 2 | 3 | 2 | 4 | 6 | 8 | 5 | | | | | |
| 8 | 4 | 0 | 8 | 8 | 6 | 7 | 0 | 2 | 2 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | | | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | | | | | |
| 1 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | | | | | | |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | |
| Islets, Pancreatic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | 1 | 1.0 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 49 | | |
| Pituitary Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 19 | 1.5 | |
| Pars Intermedia, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Thyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 36 | 1.4 | |
| Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

| .. Insufficient tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20320 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/23/2013

Test Type: CHRONIC

Tetrabromobisphenol A

Time Report Requested: 15:06:23

Route: GAVAGE

CAS Number: 79-94-7

First Dose M/F: 07/25/07 / 07/26/07

Species/Strain: RATS/Wistar Han

Lab: BAT

| WISTAR HAN RATS FEMALE | 1000 mg/kg | ANIMAL ID | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---------------------------------------|------------|-----------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|---|---|----------|
| | | | 0
7
2
8 | 0
6
8
4 | 0
7
3
0 | 0
6
8
8 | 0
6
0
6 | 0
7
3
7 | 0
4
4
2 | 0
4
4
2 | 0
7
3
9 | 0
7
3
0 | 0
7
3
0 | 0
7
2
8 | 0
7
2
9 | 0
7
2
8 | 0
7
2
8 | 0
7
2
9 | 0
7
2
6 | 0
7
2
5 | | | | |
| Rete Ovarii, Cyst | | | X | | | | | | | | | | | | X | | | X | X | | | | | 6 |
| Uterus | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenomyosis | | | | | 2 | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 2 4.0 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Cervix, Hyperplasia, Stromal | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Endometrium, Hyperplasia, Adenomatous | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | 18 1.9 |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node, Mandibular | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lymph Node, Mesenteric | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Spleen | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | 26 1.8 |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Thymus | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 45 1.8 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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CAS Number: 79-94-7

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Species/Strain: RATS/Wistar Han

Lab: BAT

| WISTAR HAN RATS FEMALE | 1000 mg/kg | DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|-----------------------------------|------------|-------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|
| | | | | 0
7 | 0
6 | 0
7 | 0
7 | 0
6 | 0
6 | 0
7 | 0
4 | 0
4 | 0
7 | | | |
| | | | | 2
8 | 2
8 | 3
4 | 3
0 | 2
8 | 8
6 | 8
7 | 0
2 | 2
2 | 0
0 | 2
9 | 0
0 | | |
| | | | | 4
1 | | |
| | | | | 1
1 | 2
2 | 4
4 | 4
4 | |
| | | | | 1
1 | 2
2 | 4
4 | 5
5 | 6
6 | 7
7 | 8
8 | 9
9 | 0
0 | 1
1 | 2
2 | 2
2 | 2
2 | 2
2 | 2
2 | 3
3 | 3
3 | 3
3 | 3
3 | 3
3 | 3
3 | 3
3 | 3
3 |
| | | | | 1
1 | 2
2 | 4
4 | 5
5 | 6
6 | 7
7 | 8
8 | 9
9 | 0
0 | 1
1 | 2
2 | 2
2 | 2
2 | 2
2 | 2
2 | 3
3 | 3
3 | 3
3 | 3
3 | 3
3 | 3
3 | 3
3 | 3
3 |
| Mammary Gland | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Galactocele | | | | | | X | | | | | | | | | | | | | | | | | | | | 2 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Skin | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Vein, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fracture | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | | | 6 3.3 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.3 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Bronchiole, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Serosa, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Nose | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

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I .. Insufficient tissue

BLANK .. Not examined microscopically

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